

4. Jumel and Ashley have two of the most popular phones on the market, a Droid and an iPhone. Jumel's monthly cell phone plan is shown below, where  $c$  stands for the cost in dollars, and  $t$  stands for the number of texts sent each month.

$$\text{Jumel: } c = 60 + 0.05t$$

Ashley's plan costs \$.35 per text, in addition to a monthly fee of \$45.

- a. Whose plan, Jumel's or Ashley's, costs less if each of them sends 30 texts in a month? Explain how you determined your answer.
- b. How much will Ashley's plan cost for the same number of texts as when Jumel's costs \$75.00?
- c. Explain in writing how you know if there is a number of texts for which both plans cost the same amount.